

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An optical distribution network system comprising:
an OLT (optical line termination) device;
a plurality of ONUs (optical network units);
a first optical network and a second optical network, one of which connects said OLT device with said plurality of ONUs; and
a ~~bandwidth control means for apportioning~~ controller configured to apportion said plurality of ONUs between said first optical network and said second optical network, ~~for assigning to assign~~ a predetermined transmission bandwidth to each of said plurality of ONUs, and ~~[[for]] accepting to accept~~ a bandwidth change of the predetermined transmission bandwidth.

Claim 2 (Currently Amended): The optical distribution network system according to claim 1, wherein when a failure occurs in one of said first optical network and said second optical network, said ~~bandwidth control means~~ controller is configured to assign ~~assigns~~ all transmission bandwidths of said ONUs to the other optical network.

Claim 3 (Currently Amended): The optical distribution network system according to claim 1, wherein when a failure occurs in a working side ONU of said plurality of ONUs, said ~~bandwidth control means~~ controller is configured to switch ~~switches~~ the working side ONU to a standby side, and ~~switches to switch~~ a standby side ONU to the working side.

Claim 4 (Currently Amended): The optical distribution network system according to claim 3, wherein when apportionment balance is lost of said plurality of ONUs between said

first optical network and said second optical network, said bandwidth ~~control means~~
controller is configured to carry ~~carries~~ out apportionment of said plurality of ONUs between
said first optical network and said second optical network, again.

Claim 5 (Currently Amended): The optical distribution network system according to
claim 1, wherein said bandwidth ~~control means assigns~~ controller is configured to assign a
minimum cell rate to each of said plurality of ONUs.

Claim 6 (Currently Amended): The optical distribution network system according to
claim 5, wherein said bandwidth ~~control means apportions~~ controller is configured to
apportion each of said plurality of ONUs to one of said first optical network and said second
optical network such that a sum total of minimum cell rates of said ONUs in said first optical
network becomes nearly equal to a sum total of minimum cell rates of said ONUs in said
second optical network.

Claim 7 (Currently Amended): The optical distribution network system according to
claim 5, wherein said bandwidth ~~control means apportions~~ controller is configured to
apportion each of said plurality of ONUs to one of said first optical network and said second
optical network such that a sum total of peak cell rates of said ONUs in said first optical
network becomes nearly equal to a sum total of peak cell rates of said ONUs in said second
optical network.

Claim 8 (Currently Amended): The optical distribution network system according to
claim 5, wherein said bandwidth ~~control means apportions~~ controller is configured to
apportion each of said plurality of ONUs to one of said first optical network and said second

optical network such that a sum total of differences between peak cell rates and minimum cell rates of said ONUs in said first optical network becomes nearly equal to a sum total of differences between peak cell rates and minimum cell rates of said ONUs in said second optical network.

Claim 9 (Currently Amended): The optical distribution network system according to claim 5, wherein said bandwidth ~~control means apportioning~~ controller is configured to apportion each of said plurality of ONUs to one of said first optical network and said second optical network such that a sum total of established bandwidths of said ONUs in said first optical network becomes nearly equal to a sum total of established bandwidths of said ONUs in said second optical network.

Claim 10 (Currently Amended): An optical distribution network system comprising:
an OLT (optical line termination) device;
a plurality of ONUs (optical network units);
a first optical network and a second optical network, one of which connects said OLT device with said plurality of ONUs; and

a bandwidth control means for apportioning controller configured to apportion a plurality of paths contained in said plurality of ONUs between said first optical network and said second optical network, ~~for assigning~~ to assign a predetermined transmission bandwidth to each of said path, and ~~for accepting~~ to accept a bandwidth change of the predetermined transmission bandwidth.

Claim 11 (Currently Amended): The optical distribution network system according to claim 10, wherein when a failure occurs in one of said first optical network and said second

optical network, said bandwidth ~~control means assigns~~ controller is configured to assign all the paths contained in said plurality of ONUs to the other optical network.

Claim 12 (Currently Amended): The optical distribution network system according to claim 10, wherein when a failure occurs in a working side path of said plurality of paths, said bandwidth ~~control means switches~~ controller is configured to switch the working side path to a standby side, and ~~switches~~ to switch a standby side path to the working side.

Claim 13 (Currently Amended): The optical distribution network system according to claim 12, wherein when apportionment balance is lost of said plurality of paths between said first optical network and said second optical network, said bandwidth ~~control means carries~~ controller is configured to carry out apportionment of said plurality of paths between said first optical network and said second optical network, again.

Claim 14 (Currently Amended): The optical distribution network system according to claim 10, wherein said bandwidth ~~control means assigns~~ controller is configured to assign a minimum cell rate to each of said plurality of paths.

Claim 15 (Currently Amended): The optical distribution network system according to claim 14, wherein said bandwidth ~~control means apportions~~ controller is configured to apportion each of said plurality of paths to one of said first optical network and said second optical network such that a sum total of minimum cell rates of said paths in said first optical network becomes nearly equal to a sum total of minimum cell rates of said paths in said second optical network.

Claim 16 (Currently Amended): The optical distribution network system according to claim 14, wherein said bandwidth ~~control means apportion~~s controller is configured to apportion each of said plurality of ONUs to one of said first optical network and said second optical network such that a sum total of peak cell rates of said paths in said first optical network becomes nearly equal to a sum total of peak cell rates of said paths in said second optical network.

Claim 17 (Currently Amended): The optical distribution network system according to claim 14, wherein said bandwidth ~~control means apportion~~s controller is configured to apportion each of said plurality of paths to one of said first optical network and said second optical network such that a sum total of differences between peak cell rates and minimum cell rates of said paths in said first optical network becomes nearly equal to a sum total of differences between peak cell rates and minimum cell rates of said paths in said second optical network.

Claim 18 (Currently Amended): The optical distribution network system according to claim 14, wherein said bandwidth ~~control means apportion~~s controller is configured to apportion each of said plurality of ONUs to one of said first optical network and said second optical network such that a sum total of established bandwidths of said paths in said first optical network becomes nearly equal to a sum total of established bandwidths of said paths in said second optical network.

Claim 19 (New): A method for assigning bandwidth in an optical distribution network comprising:

apportioning a plurality of optical network units between a first optical network and a second optical network;

assigning a predetermined transmission bandwidth to each of said plurality of optical network units; and

accepting a bandwidth change of the predetermined bandwidth.